

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT

```
KK      KK  EEEEEEEEE  YY      YY  PPPPPPP  AAAAAA  DDDDDDD  DDDDDDD  EEEEEEEEE  FFFFFFFFF
KK      KK  EEEEEEEEE  YY      YY  PPPPPPP  AAAAAA  DDDDDDD  DDDDDDD  EEEEEEEEE  FFFFFFFFF
KK      KK  EE        YY      YY  PP      PP  AA      AA  DD      DD  DD      DD  EE        FF
KK      KK  EE        YY      YY  PP      PP  AA      AA  DD      DD  DD      DD  EE        FF
KK      KK  EE        YY      YY  PP      PP  AA      AA  DD      DD  DD      DD  EE        FF
KK      KK  EE        YY      YY  PP      PP  AA      AA  DD      DD  DD      DD  EE        FF
KK      KK  EEEEEEEE  YY      YY  PPPPPPP  AAAAAA  DD      DD  DD      DD  EEEEEEEE  FFFFFFFF
KK      KK  EEEEEEEE  YY      YY  PPPPPPP  AAAAAA  DD      DD  DD      DD  EEEEEEEE  FFFFFFFF
KK      KK  EE        YY      YY  PP      PP  AAAAAAAAAA  DD      DD  DD      DD  EE        FF
KK      KK  EE        YY      YY  PP      PP  AAAAAAAAAA  DD      DD  DD      DD  EE        FF
KK      KK  EE        YY      YY  PP      PP  AA      AA  DD      DD  DD      DD  EE        FF
KK      KK  EEEEEEEEE  YY      YY  PP      PP  AA      AA  DDDDDDD  DDDDDDD  EEEEEEEEE  FF
KK      KK  EEEEEEEEE  YY      YY  PP      PP  AA      AA  DDDDDDD  DDDDDDD  EEEEEEEEE  FF
                                     ....
                                     ....
                                     ....
                                     ....
```

```
RRRRRRR  EEEEEEEEE  QQQQQQ
RRRRRRR  EEEEEEEEE  QQQQQQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RRRRRRR  EEEEEEEE  QQ      QQ
RRRRRRR  EEEEEEEE  QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EE        QQ      QQ
RR      RR  EEEEEEEEE  QQQQ  QQ
RR      RR  EEEEEEEEE  QQQQ  QQ
```

```
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```

```
+
This file, KEYPADDEF.REQ, defines symbols and structures for the keypad,
and for definable keys in general.
```

Revision history:

```
1-001 - Original. JBS 13-Aug-1982
1-002 - Provide a large hash table on VAX/VMS. JBS 17-Aug-1982
<BLF/PAGE>
```

```

!+
! Define symbols for the values that correspond to the keys.
! Values 0 to 127 are ASCII characters, 128 to 255 are the
! DEC Multinational Supplementry set.
!-

```

## LITERAL

```

K_KPAD_BASE = 300,           ! Base for the 22 keypad keys
K_FUN_BASE = 400,           ! Base for the 100 function keys
K_MAX_FUN_VAL = 99,         ! Maximum function key value
K_GOLD_BASE = 500,          ! Add for GOLD prefix
K_KEY_MAX = 999;            ! Maximun key value

```

```

!+
! Define the special keypad keys.
! These are the numeric values used for the definable keys.
!-

```

## LITERAL

```

K_0 = K_KPAD_BASE + 0,
K_1 = K_KPAD_BASE + 1,
K_2 = K_KPAD_BASE + 2,
K_3 = K_KPAD_BASE + 3,
K_4 = K_KPAD_BASE + 4,
K_5 = K_KPAD_BASE + 5,
K_6 = K_KPAD_BASE + 6,
K_7 = K_KPAD_BASE + 7,
K_8 = K_KPAD_BASE + 8,
K_9 = K_KPAD_BASE + 9,
K_PF2 = K_KPAD_BASE + 10,
K_PF3 = K_KPAD_BASE + 11,
K_UP = K_KPAD_BASE + 12,
K_DOWN = K_KPAD_BASE + 13,
K_RIGHT = K_KPAD_BASE + 14,
K_LEFT = K_KPAD_BASE + 15,
K_DOT = K_KPAD_BASE + 16,
K_PF4 = K_KPAD_BASE + 17,
K_MINUS = K_KPAD_BASE + 18,
K_COMMA = K_KPAD_BASE + 19,
K_PF1 = K_KPAD_BASE + 20,
K_ENTER = K_KPAD_BASE + 21;

```

```

!+
! The following structure holds a defined key.
!-

```

## FIELD

```

KEY_DEF_FIELD =
  SET
    KEY_DEF_NEXT = [0, 0, %BPADDR, 0] ! Pointer to next in this bucket, must be first
    KEY_DEF_KEY = [%BPADDR/8, 0, 16, 0] ! code for this key, 0 to K_KEY_MAX
    KEY_DEF_LEN = [(%BPADDR/8) + 2, 0, 8, 0] ! Length of the definition
    KEY_DEF_TEXT = [(%BPADDR/8) + 3, 0, 0, 0] ! Start of definition text
  TES;

```

```
LITERAL
  KEY_DEF_OVERHEAD = %FIELDEXPAND (KEY_DEF_TEXT, 0);  ! Amount to add to text size to get structure size
!+
!- Define the length of the hash table that holds pointers to key definitions.
%IF %BLISS(BLISS16) %THEN
  LITERAL K_KPAD_HASHSIZ = 1;                ! Very short table for PDP-11
%ELSE
  LITERAL K_KPAD_HASHSIZ = 199;              ! Plenty of room on VAX-11
%FI
!
[ End of file KEYPADDEF.REQ ]
```

0130 AH-BT13A-SE  
VAX/VMS V4.0

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